



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

Brown's Mills, N. J.—*O. laeve*, Wittr. Hopatcong, N. J.—*O. plusioporum*, Wittr., Waterloo, N. J.—*O. ciliatum*, Hass, Atsion, N. J.

O. Donnellyi, n. sp.—*O. oogoniis* singulis, subglobosis; oosporis echinatis, oogonia fere complentibus, globosis, echinis conicis; androsporangii 4-10-cellularibus; nannandribus bicellularibus, paullulum curvatis, stipitatis, in cellulis suffultoriis sedentibus. Crassit. cell. veget. .0023"—.0025." Altit. 1-2-plo major. Oogon. .003"—.0033"; oospor. c. echin. .0028"—.003." Coll. J. D. Smith, Florida, 1879.

Bulbochaete, Ag.—*B. monile*, Wittr. and Lund. Hopatcong Lake, N. J.

Hormiscia, Aresch.—*H. speciosa*, Crouan. Brackish water near N. Y. Coll. R. Hitchcock.

Ulothrix, Ktz.—*K. tenerrima*, Ktz.—Coll. Dr. Hobby, Iowa.—*U. compacta*, Ktz. Small pool, Perth Amboy, N. J.

Microthamnion, Naeg.—*M. Kützingianum*, Naeg. Water troughs, etc.

Stigeoclonium, Ktz.—*S. irregulare*, Ktz.

Coleochaete, Breb.—*C. soluta*, Pringsh. Ponds, N. Jersey. Collected fine specimens in various stages of development. The young forms reflect upon the character of *Chaetococcus*, and tell a tale on forms of *Aphanochaete*, and particularly on *Horposteiron* (*Aphanochaete*) *globosa*, Nordst.

Chantransia, Fries.—*C. macrospora*, Wood. Hitherto found only in S. C. The large pond at Atsion, N. J., abounds with it. Along the shores, it grows on sticks, larger timbers, and the roots of trees extending into the water:

Batrachospermum.—*B. vagum*, Roth., is also frequent in the same pond.

§ 36. Note on the Differences between *Cyperus ovularis*, Torr., and *C. cylindricus*, N. L. Britton, (with a plate.)

In the BULLETIN for August, 1879, I called attention to the fact that *Cyperus* (*Mariscus*) *cylindricus*, should be regarded as specifically distinct from *C. ovularis*, and not as merely a variety of the latter. I take this opportunity to figure the most marked differences between the two species on the accompanying plate. Fig. 1 is an umbel of *C. ovularis*, showing its dense globular heads; (B) is a three-flowered spikelet, and (A) an achenium of this species.

Fig. 2 represents an umbel of *C. cylindricus* with its cylindrical heads; (D) is a two-flowered spikelet, and (C) the achenium. Figures 1 and 2 are the natural size; (B) and (D) are enlarged six times, and (A) and (C) are enlarged twelve times.

The specimen of *Cyperus ovularis* from which the figures were drawn, was collected near Norfolk, Va., by Mr. H. P. Worcester; that of *C. cylindricus* I collected myself near Manchester, N. J.

I am indebted to Mr. Arthur Hollick for the beauty and accuracy of the drawings. N. L. BRITTON.

SCHOOL OF MINES, N. Y., April 19th, 1880.

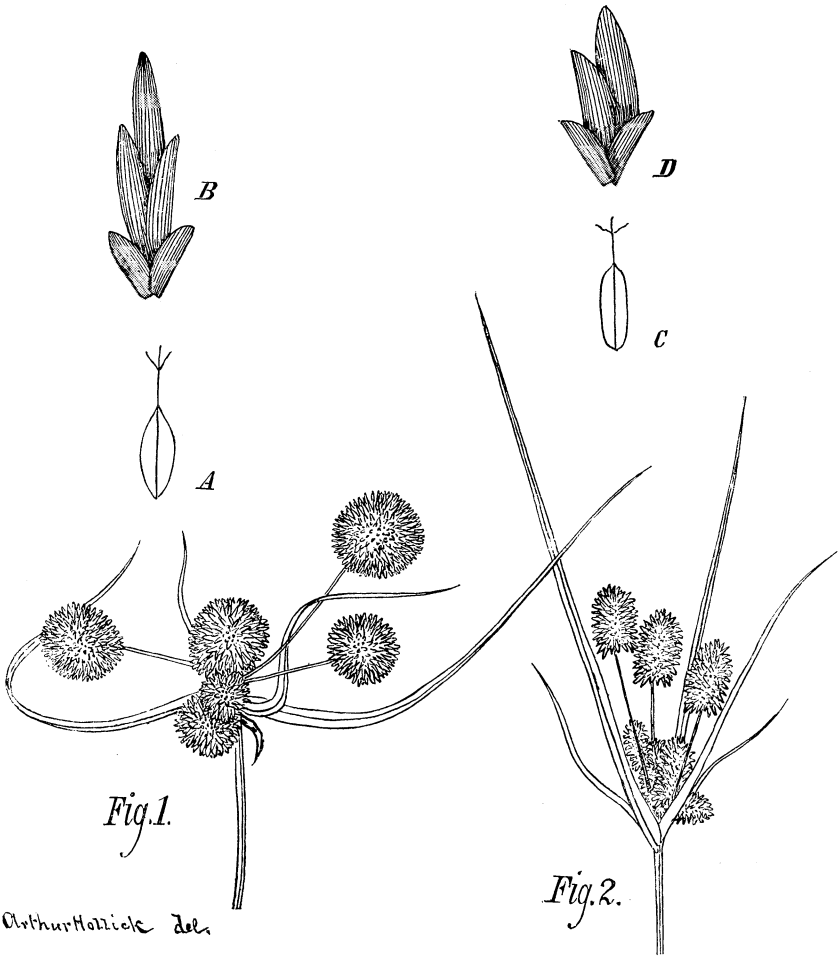


Fig. 1.—CYPERUS OVULARIS, TORR.

Fig. 2.—C. CYLINDRICUS, BRITTON.